# **EXHIBIT F**





Search for website

# **Twitter Scraper**

Scrape Twitter and scrape data such from public Twitter profiles. Collect data on URLs, hashtags, images, videos, tweets, retweets, conversation threads, followers/following, locations, and more.

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Use Bright Data's Web Scraper IDE,

# Twitter Scraper use cases

Scrape Twitter to monitor consumer sentiment

Find new influencers and monitor shifts in popularity

Protect your brand image by capturing users' conversations

Easily stay on top of new trending topics

# Twitter Scraper Overview

- Easy data scraping for beginners
- Utilizes proprietary technology to unlock sites
- Infinitely scalable collect as much data as you need quickly and completely
- Fully compliant with industry best practices and privacy regulations (GDPR, CCPA)

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# **Twitter profile**

Collect profile data by profile URL

#### **Twitter tweets**

Collect tweets by tweet URL

# Twitter keyword or hashtag

Collect tweets by keyword or #hashtag - DEMO

# Twitter keyword or hashtag

**Sample Input** 

search

#love

**Sample Output** 

```
'id_str": "1417746521731133443",
    "full_text": "All my heart to this movie �� 🍗 💛 #love #selfcare
#WEALLHUMAN https:\/\/t.co\/m1lwyJNGF4",
    "truncated": false,
    "source": "\u003Ca
href=\u0022http:\/\twitter.com\/download\/iphone\u0022
rel=\u0022nofollow\u0022\u003ETwitter for iPhone\u003C\/a\u003E",
    "in_reply_to_status_id": null,
    "in_reply_to_status_id_str": null,
    "in_reply_to_user_id": null,
    "in_reply_to_user_id_str": null,
    "in_reply_to_screen_name": null,
    "user_id_str": "1414891075982880770",
    "geo": null,
    "coordinates": null,
    "contributors": null,
```

# Twitter profile

## **Sample Input**

url

https://twitter.com/billieeilish

number\_of\_tweets

70

#### **Sample Output**

```
"isVerified": true,
    "bio": "Newton is a very handsome boy.",
    "location": "California, USA",
    "following": 2067,
    "followers": 17192867,
    "website_url": "http:\/\/spotify.link\/NetflixHub",
    "posts": 43328,
    "media_count": 10778,
    "profile_background_image_url":
    "https:\/\/pbs.twimg.com\/profile_banners\/16573941\/1648216530",
        "profile_image_url":
    "https:\/\/pbs.twimg.com\/profile_images\/1235992718171467776\/PaX2Bz1S_nor
    "created": "Fri Oct 03 04:16:17 +0000 2008",
    "handle": "netflix",
    "collected_number_of_posts": 20,
```

#### **Twitter tweets**

#### **Sample Input**

url

https://twitter.com/billieeilish/status/1288974168399069185

#### **Sample Output**

```
"1448695234561380352"

],
    "post_url":

"https:\/\/twitter.com\/NYUABetterTech\/status\/1448695234561380352",
    "post_text": "Happening now! Join @NaDomagala, @maria_axente, Dave

Tarrant, Olivia Gambelin and hear responsible technology professionals from

different sectors sharing what skills they have found the most useful when

working in technology and data ethics.",

"post_time": "Thu Oct 14 17:00:34 +0000 2021",

"retweets": 0,

"comments": 0,

"likes": 1,

"status": "Ok"

}
```

# Web Scraper IDE Features

Leave your scraping limitations behind with our hosted cloud solution

#### Pre-made web scraper templates

Get started quickly and adapt existing code to your specific needs

vvatch your code as you build it and debug errors in your code quickly

### **Built-in debug tools**

Debug what happened in a past crawl to understand what needs fixing in the next version

# Browser scripting in JavaScript

Handle your browser control and parsing codes with simple procedural JavaScript

#### **Ready-made functions**

Capture browser network calls, configure a proxy, extract data from lazy loading UI, and more!

#### Easy parser creation

# **Auto-scaling infrastructure**

You don't need to invest in the hardware or software to manage an enterprise-grade web scraper

## Integration

Emulate a user in any geo-location with built-in fingerprinting, automated retries, CAPTCHA solving, and more.

## **Built-in debug tools**

Trigger crawls on a schedule or by API, and connect our API to major storage platforms

# Leverage Twitter Scraper for the following uses:

 Get a leg up on upcoming trends, predict the next fads and fashions, and keep track of consumer sentiment

• Learn about your competitors and their customers to gain insights and advantage



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Everything you need from a web scraping solution

Browse Bright Data's directories

# Want to learn more?

Talk to an expert to discuss your data collection needs and see our platform in action.

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# bright data

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